

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

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SAFETY DATA SHEET

Fipronil 40% + Imidacloprid 40% WG

1. Product Identification

- **Product Name:** Fipronil 40% + Imidacloprid 40% WG
- **Formulation Type:** Water-Dispersible Granules (WG)
- **Chemical Class:** Phenylpyrazole (Fipronil) and Neonicotinoid (Imidacloprid)
- **Intended Use:** Broad-spectrum insecticide used for controlling soil-borne and foliar pests in agriculture
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited
- **Recommended Use:** Used to control termites, white grubs, and various sucking pests in crops like sugarcane, groundnut, and vegetables

2. Hazard Identification

- **GHS Classification:**
 - Acute Oral Toxicity: Category 3 (Fipronil), Category 4 (Imidacloprid)
 - Skin Sensitization: Category 1
 - Eye Irritation: Category 2A
 - Hazardous to the Aquatic Environment, Acute: Category 1
 - Hazardous to the Aquatic Environment, Chronic: Category 1
- **Signal Word:** Danger
- **Hazard Statements:**
 - H301: Toxic if swallowed
 - H302: Harmful if swallowed
 - H317: May cause an allergic skin reaction

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- H319: Causes serious eye irritation
- H410: Very toxic to aquatic life with long-lasting effects

- **Precautionary Statements:**

- P270: Do not eat, drink, or smoke while handling the product
- P273: Avoid release to the environment
- P280: Wear protective gloves, protective clothing, and eye protection
- P301+P310: IF SWALLOWED: Call a POISON CENTER immediately
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes
- P501: Dispose of contents/container in accordance with local, regional, national, or international regulations

3. Composition and Information on Ingredients

- **Active Ingredients:**

- **Fipronil:** 40% w/w
 - **CAS Number:** 120068-37-3
 - **Mode of Action:** Blocks GABA-gated chloride channels in insects, causing hyperexcitation of the nervous system leading to death
- **Imidacloprid:** 40% w/w
 - **CAS Number:** 138261-41-3
 - **Mode of Action:** Systemic action on nicotinic acetylcholine receptors leading to paralysis and death in insects

- **Inert Ingredients:** Up to 20%

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4. First-Aid Measures

- **Inhalation:** Remove the individual from exposure to fresh air. If breathing difficulties occur, seek immediate medical attention.
 - **Skin Contact:** Wash the affected area thoroughly with soap and water. Remove contaminated clothing and seek medical attention if irritation develops.
 - **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek medical advice if irritation persists.
 - **Ingestion:** Do not induce vomiting. Rinse mouth thoroughly with water and seek immediate medical attention.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical powder, or carbon dioxide
 - **Hazards from Combustion:** May produce toxic fumes, including carbon monoxide, carbon dioxide, hydrogen chloride, and nitrogen oxides
 - **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus (SCBA) and full protective clothing
 - **Special Fire-Fighting Procedures:** Avoid runoff that could contaminate water sources
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6. Accidental Release Measures

- **Personal Precautions:** Wear appropriate personal protective equipment (PPE) to avoid contact
- **Environmental Precautions:** Prevent the product from entering water bodies, drains, and soil
- **Methods for Cleanup:**
 - Absorb spill with inert material (e.g., sand or soil)
 - Collect and place in suitable containers for disposal according to local regulations
 - Clean the spill area with water and detergent

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7. Handling and Storage

- **Handling:**
 - Avoid inhalation, ingestion, and contact with skin or eyes
 - Use protective gear during handling
- **Storage:**
 - Store in a cool, dry, well-ventilated area
 - Protect from direct sunlight and moisture
 - Keep containers tightly sealed when not in use
- **Shelf Life:** 2 years from the date of manufacture under recommended storage conditions

8. Exposure Controls and Personal Protection

- **Occupational Exposure Limits:** No official exposure limits established for this product
 - **Engineering Controls:** Ensure adequate ventilation, particularly in enclosed areas
 - **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** NIOSH-approved respirator
 - **Hand Protection:** Chemical-resistant gloves (nitrile or rubber)
 - **Eye Protection:** Safety goggles with side shields
 - **Skin Protection:** Long-sleeved protective clothing and footwear
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9. Physical and Chemical Properties

- **Appearance:** Off-white to beige granules
- **Odor:** Faint characteristic odor
- **pH (1% solution):** 6.0–7.0
- **Melting Point:** Not applicable (mixture)
- **Boiling Point:** Not applicable (mixture)
- **Solubility in Water:** Dispersible
- **Density:** 1.10–1.30 g/cm³
- **Partition Coefficient (log Pow):**
 - Fipronil: 4.0
 - Imidacloprid: 0.57

10. Stability and Reactivity

- **Chemical Stability:** Stable under normal storage and handling conditions
- **Conditions to Avoid:** Exposure to high temperatures, moisture, and direct sunlight
- **Incompatible Materials:** Strong acids, strong bases, and oxidizing agents
- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride

11. Toxicological Information

- **Acute Toxicity:**
 - Oral LD50 (Rat): 90 mg/kg (Fipronil); 450 mg/kg (Imidacloprid)
 - Dermal LD50 (Rat): >2000 mg/kg
 - Inhalation LC50 (Rat, 4h): 0.36 mg/L (Fipronil)

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- **Skin Irritation:** May cause mild irritation
 - **Eye Irritation:** Causes serious eye irritation
 - **Sensitization:** May cause skin sensitization
 - **Carcinogenicity:** No evidence of carcinogenic effects in humans
 - **Mutagenicity:** No mutagenic effects observed
 - **Reproductive Toxicity:** No adverse reproductive effects observed
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12. Ecological Information

- **Aquatic Toxicity:**
 - Fish (96h LC50 - Rainbow trout): 0.085 mg/L (Fipronil); 85 mg/L (Imidacloprid)
 - Daphnia Magna (48h EC50): 0.19 mg/L (Fipronil); 0.038 mg/L (Imidacloprid)
 - Algae (72h EC50): 0.068 mg/L
 - **Bee Toxicity:** Highly toxic to bees; avoid application during flowering periods
 - **Persistence and Degradability:** Moderately persistent in soil and water
 - **Bioaccumulation Potential:** High for Fipronil; Moderate for Imidacloprid
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13. Disposal Considerations

- **Product Disposal:** Dispose of according to local, regional, or national environmental regulations
 - **Container Disposal:** Triple rinse empty containers and puncture before disposal
 - **Environmental Precautions:** Do not allow product or runoff to contaminate water bodies
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14. Transport Information

- **UN Number:** UN3077
 - **Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (Fipronil, Imidacloprid)
 - **Hazard Class:** 9 (Miscellaneous dangerous substances and articles)
 - **Packing Group:** III
 - **Marine Pollutant:** Yes
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15. Regulatory Information

- **U.S. EPA Registration:** Registered pesticide product
 - **EU Classification:** Very toxic to aquatic life, may cause long-term adverse effects
 - **International Regulations:**
 - Compliant with REACH (EU)
 - Registered under the FAO International Code of Conduct on Pesticide Management
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16. Other Information

- **Disclaimer:** This information is provided in good faith and based on current knowledge. The user is responsible for ensuring compliance with applicable laws and regulations. Proper handling, storage, and disposal practices should always be followed.